

L Number	Hits	Search Text	DB	Time stamp
1	21	(multimodal multi-modal) same input and speech same (finger gesture pointing)	USPAT; EPO; JPO; DERWENT; IBM_TDB	2003/09/22 14:23
2	2	((multimodal multi-modal) same input and speech same (finger gesture pointing)) and 345/862-863,727,716;382/103,255,286,293,311,312.ccls.	USPAT; EPO; JPO; DERWENT; IBM_TDB	2003/09/22 14:26
3	0	((multimodal multi-modal) same input and speech same (finger gesture pointing)) and 345/862-863,727,716;382/103,255,286,293,311,312.ccls.) and camera with (monitoring controlling adjusting orienting aiming redirecting)	USPAT; EPO; JPO; DERWENT; IBM_TDB	2003/09/22 14:26
4	34632	camera with (monitoring controlling adjusting orienting aiming redirecting)	USPAT; EPO; JPO; DERWENT; IBM_TDB	2003/09/22 14:27
5	9815	(camera with (monitoring controlling adjusting orienting aiming redirecting)) and camera with (adjusting orienting aiming redirecting)	USPAT; EPO; JPO; DERWENT; IBM_TDB	2003/09/22 14:27
6	1917	((camera with (monitoring controlling adjusting orienting aiming redirecting)) and camera with (adjusting orienting aiming redirecting)) and (ptz tilt\$4 pan\$4)	USPAT; EPO; JPO; DERWENT; IBM_TDB	2003/09/22 14:28
7	21	(((camera with (monitoring controlling adjusting orienting aiming redirecting)) and camera with (adjusting orienting aiming redirecting)) and (ptz tilt\$4 pan\$4)) and (speech voice) with input and (gesture motion)	USPAT; EPO; JPO; DERWENT; IBM_TDB	2003/09/22 14:34
8	0	(((camera with (monitoring controlling adjusting orienting aiming redirecting)) and camera with (adjusting orienting aiming redirecting)) and (ptz tilt\$4 pan\$4)) and (speech voice) with input and (gesture motion)) and (adjusting redirecting) with camera with response with (gestur input speech)	USPAT; EPO; JPO; DERWENT; IBM_TDB	2003/09/22 14:35
9	0	(adjusting redirecting) with camera with response with (gesture voice speech) near5 input	USPAT; EPO; JPO; DERWENT; IBM_TDB	2003/09/22 14:37
10	0	(adjusting redirecting) with camera with response with (gesture voice speech)	USPAT; EPO; JPO; DERWENT; IBM_TDB	2003/09/22 14:37

Searching for **PHRASE multimodal gesture speech camera**.

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[Multimodal Man-Machine Interface for Mission Planning - Medl Marsic \(1998\) \(Correct\)](#)

Multimodal Man-Machine Interface for Mission Planning A.

components: ffl force-feedback tactile input and **gesture** recognition Workspace User 1 Fusion Agent also presented. Keywords **Multimodal** interfaces, **speech** recognition, microphonearray, force-feedback www.caip.rutgers.edu/~medl/PUBLICATIONS/aaai.ps

[Integration of Speech and Gesture for Multimodal.. - Andre Popescu \(Correct\)](#)

Integration of **Speech** and **Gesture** for **Multimodal** Human-Computer Interaction M. Andre 12 V.

Integration of **Speech** and **Gesture** for **Multimodal** Human-Computer Interaction M.

Integration of **Speech** and **Gesture** for **Multimodal** Human-Computer

www.caip.rutgers.edu/~medl/PUBLICATIONS/cmc98.ps

[Gestural Interface to a Visual Computing Environment for.. - Vladimir Pavlovic \(1996\) \(Correct\) \(4 citations\)](#)

and the tasks to be done [1]We explore this **multimodal** nature of HCI involved in manipulating virtual

This paper describes the use of visual hand **gesture** analysis enhanced with **speech** recognition for use of visual hand **gesture** analysis enhanced with **speech** recognition for developing a bimodal

www.ifp.uiuc.edu/~vladimir/papers/icafr96.ps.gz

[Modeling The Interaction Between Speech And Gesture - Cassell, Steedman, Badler, .. \(1994\) \(Correct\)](#)

(8 citations)

of words and graphics in the generation of **multimodal** text [6]21]In storytelling, narrative

Modeling The Interaction Between **Speech** And **Gesture** Justine Cassell Mark Steedman Norm Badler

justine.www.media.mit.edu/people/justine/cogsci94.ps

[Issues In Measuring The Benefits Of Multimodal Interfaces - Flanagan, Marsic \(1997\) \(Correct\) \(1 citation\)](#)

Issues In Measuring The Benefits Of **Multimodal** Interfaces James Flanagan And Ivan Marsic Caip

and autodirective microphone arrays touch) **gesture** detection and position sensing, force-feedback in Proc. IEEE Int'l Conf. Acoustics, **Speech**, and Signal Processing (ICASSP'97)Munich,

www.caip.rutgers.edu/disciple/Publications/icassp-97.ps.gz

[Toward Natural Gesture/Speech HCI: A Case Study of.. - Poddar, Sethi.. \(1998\) \(Correct\) \(2 citations\)](#)

for continuous **gesture** recognition and also for **multimodal** fusion [11]Many different researchers [13,

Toward Natural **Gesture/Speech** HCI: A Case Study of Weather Narration

www.cs.ucsb.edu/~cs290a/papers/Poddar.pdf

[Design Principles for Intelligent Environments - Coen \(1998\) \(Correct\) \(15 citations\)](#)

to experiment with different forms of natural, **multimodal** human-computer interaction. We discuss design systems the way they would with other people: via **gesture**, voice, movement, and context. We describe an

It is equipped with numerous computer vision, **speech** and **gesture** recognition systems that connect it

www.ai.mit.edu/people/mhcoen/IESymposium.ps

[Unification-based Multimodal Parsing - Johnston \(1998\) \(Correct\) \(7 citations\)](#)

Unification-based **Multimodal** Parsing Michael Johnston Center for Human

of a single spoken phrase with a single **gesture**. We show how the unification-based approach can

cse.ogi.edu/pub/johnston/acl98.ps

[Unification-based Multimodal Integration - Johnston, Cohen, McGee, Oviatt.. \(1997\) \(Correct\) \(16 citations\)](#)

Unification-based **Multimodal** Integration Michael Johnston, Philip R. Cohen,

allowing simultaneous input from **speech** and **gesture** recognition. Integration of spoken and gestural

cse.ogi.edu/pub/johnston/acl97.ps

Designing Conversational Interfaces With Multimodal.. - Bers, Miller, Makhoul (Correct)

Designing Conversational Interfaces With **Multimodal** Interaction Josh Bers, Scott Miller, John of mobile networked users will use **speech** and **gesture** to enter and retrieve information. Recent interfaces to on-line applications through **speech** recognition technology. We have developed a www.nist.gov/speech/proc/darpa98/ps/demo10.ps

Real-time Integration of Speech, Gesture, Graphics and Data-base - Ryuichi Oka (1995) (Correct)

Real-time Integration of **Speech**, **Gesture**, Graphics and Data-base Ryuichi Oka, Jiro
Real-time Integration of **Speech**, **Gesture**, Graphics and Data-base Ryuichi Oka,
jisp.cs.nyu.edu/RWC/rwcp/people/yk/rwcp-doc/papers/1995/F-22_045.ps.gz

Multimodal Interface Agents and the Architecture of Psychosocial.. - --> (1995) (Correct)

Multimodal Interface Agents and the Architecture of
5 Manual **Gesture**
ftp.media.mit.edu/pub/kris/Proposal.ps.Z

The Cooperative Show Actions in TV Conferencing - Zhang Rui Hiroshi (Correct)

Oviatt and Erik, Olsen "Integration Themes in **Multimodal** Human-Computer Interaction" Proceedings of the threemodalities of **speech**, **camera** control, and **gesture** during TV conferencing. With introducing some how participants integrate the threemodalities of **speech**, **camera** control, and **gesture** during TV
www.cs.herts.ac.uk/~comqcln/CT97/zhang.ps

An Architecture for Multimodal Information Fusion - Shaikh Juth (Correct)

An Architecture for **Multimodal** Information Fusion A. Shaikh, S. Juth, A.
components: ffl force-feedback tactile input and **gesture** recognition ffl automatic **speech** recognition
More natural communication technologies such as **speech**, sight and touch, are capable of freeing
www.caip.rutgers.edu/~medl/PUBLICATIONS/pui-final.ps

A Framework For Gesture Generation And Interpretation - Cassell (Correct) (5 citations)

system especially designed for prototyping **multimodal** agents that understand human communicative
University Press, In Press. A Framework For **Gesture** Generation And Interpretation Justine
gn.www.media.mit.edu/groups/gn/publications/gesture_wkshop.ps

Referring in Multimodal Systems: The Importance of.. - Petrelli, De.. (1997) (Correct) (1 citation)

Referring in **Multimodal** Systems: The Importance of User Expertise and
combining different modalities (e.g. **speech** and **gestures**) **multimodal** references act as efficient tools!
space. By combining different modalities (e.g. **speech** and **gestures**) **multimodal** references act as
ftp.dfki.uni-sb.de/pub/mm-references/petrelli.ps.gz

Recognizing Hand Gestures - James Davis (1994) (Correct) (5 citations)

Stockholm, Sweden, ed 2-6, 1994. Recognizing Hand **Gestures** James Davis and Mubarak Shah Computer
vismod.www.media.mit.edu/~jdavis/OldPapers/eccv.ps.Z

A Multimodal Computer-augmented Interface for Distributed.. - Julia, CHEYER (1995) (Correct)

A **Multimodal** Computer-augmented Interface for Distributed
a distributed application integrating handwriting, **gesture** and **speech** recognition for a map-based task. Our
Interface, Agent Architecture, Pen Computing, **Speech** Recognition. ABSTRACT In this paper, we present
ftp.speech.sri.com/pub/people/julia/papers/hcii95.ps.gz

A Unified Framework for Constructing Multimodal.. - Cheyer, Julia, Martin (1998) (Correct) (1 citation)

A Unified Framework for Constructing **Multimodal** Experiments and Applications Adam Cheyer 1
the data stream: Pen input may be interpreted as a **gesture** (e.g. Ex1.5: crossout, Ex1.9: arrow) by one
Menlo Park, CA 94025 USA cheyer@ai.sri.com, julia@speech.sri.com 2 LIMSI-CNRS, BP 133, 91403 Orsay
ftp.speech.sri.com/pub/people/julia/papers/cmc98-1.ps.gz

Word Learning In A Multimodal Environment - Roy, Pentland (1998) (Correct) (1 citation)

Word Learning In A **Multimodal** Environment Deb Roy And Alex Pentland Mit
using natural modalities including **speech** and **gesture**. A problem with current **multimodal** interfaces is
with machines using natural modalities including **speech** and **gesture**. A problem with current **multimodal**
dkroy.www.media.mit.edu/people/dkroy/papers/Postscript/icassp98.ps

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